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Of Serums

for Lancer

Mose w broadcast this wack quoued reports that some scientists are developing scients that retard cancer. The reports cautioned against over-optimism.

Professor Ivan Maisky, dioctor of the Soviet Institute of Experimental Biology, in a newspaper article quoted by Moscow Radio said:

By approaching the probiem from modern biological mantions Soviet acientists are able to penetrate into the mature of cancer tissues.

This also offers the possibility of controlling tumor growth and what is perhaps most-important, opens up the prospect or obtaining cancer antigenes.

Similarly to the live vaccines used for the prevention of contagious diseases these infigenes will be able to prevent the development of metasses (transference from one organ to another) of tumors

Another laboratory of the institute headed by Professor Victor Gostev is working on the development of anti-cancer serums and studying their effect on tumor growing in animals.

"It has been proved experimentally that such serums retard the development of cancer cells and tumors as well

To norsed yeas an corcless and 120 Program

🖺 🤧 Fountain's committee numbers if new patent policy and raise prices of drugs

the outers for further government assumes into drug industry practices. this anilowed issuance of the Federal leaste Commission's antibiotics report was August gained momentum this tained . . with the re-entry of the Addie Government Operations Subcommittee into the picture.

has one thing, it became clear that, a ree patent policy recently adopted by are them of Health. Education & Wel-

fare in connection with the cancer chemsomerapy program appears likely to hoost consumer prices of possible cancer drugs developed under the setup, submanuface investigators probably will Baller a riblick et b.

Inquiries: The tip-off on the subcommittee's renewed interest in drug industry activities was provided by 'preliminary inquiries" by the group for information on all of the medical research programs coming under the jurismetton or right and its research arm, the National Institutes of Health.

Chiefly, what the subcommittee wants to find out is whether "the taxpayer

is getting full value" for public funds I spent on U.S. medical research projects.

Headed by Rep 1. H Fountain 1D-NC at the subcommittee's "function is to examine expenditures by government agencies." For this reason, any official inquiry launched by the subcommittee on the basis of evidence turned up by the group's staft would deal with patent policy and drug prices "only indirectly. James Naughton, subcommittee counsel. told American Directors.

Numbeless, Mr. Naughton declared that is it is found that USPHS expendecurs sesult in higher prices than concanaria otherwise would pay, "we might 49 7 75 the wisdom of the government ·· ··- гечиныме

mt Falley: With particular refhe the givent putest policy, vi-Naughton reported that the recently area of interest to the subcommittee avestimators. What is involved in this

and is the conform as to whether struct neveloped under the cancer chemotherais program are going to be freely available to the taxpavers

lift was cames patent policy provides) that a manufacturer who develops an > offective drug is a result of research carried out under 1 government con-Lhull tract may patent and "exploit product communicativ as long ad the drug is produced in ample quantity? a et para aged at reasons be prices (Aug 28 A D).

Pelio Cases: Mr. Naughton recaded that the government operations subcommittee previously has been "active in the drug field particularly in connection with the government's poliovaccine procurement program,

It was the subcommittee's prodding in 1956 that led to the Trenton (N J C grand jury's investigation of the vacrine manufacturers' pricing policies and the indictment that followed be noted .

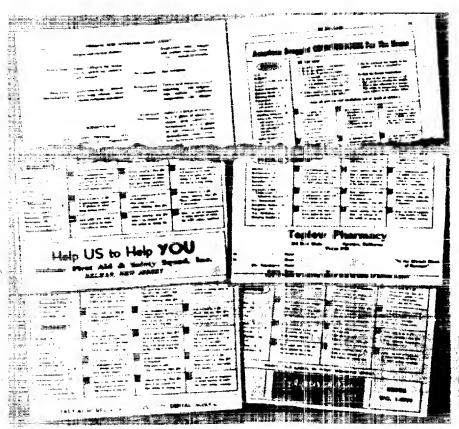
Frices: With reference to drug prices. Mr. Naughton cited the "inter-g est" that Rep. Cher Holifield (D-Calif) a member of the subcommittee has shown in the pricing structure of the drug hold. In the polic vaccine situation and on other occasions.

ingropriational the new threat to the industry that the House subcommittee's perusal of HEW's medical research programs entails comes at a time when government appropriations for bealth and medical purposes, including research, are up 13.6% over the 1958 fincal year.

Moneyer, it is timed to coincide with Sem. Estes Kefauver's anitrust . Mibeuminittee plans to stage a full-scale similaring prope of sirug beld pricing practices.

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Phio State Education Dept Includes Launterdose Chart In Official Manual



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Table HERAN DApproved Portected to the DP86R01731R00020007000099 the Name *** 25

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In U.S. Cancer Research

WASHINGTON, Aug. 5 (P)—The Welfare Department today revised policies for-patents on products or processes which may be developed by private industry under Government cancer research contracts.

The new policy permits an industry to patent and sell drugs or other chemical agents it develops under government-contract research work.

To protect the public, the ruting also gives the surgeon general authority to license, royalty-free, other manufacturers to produce the agents if he finds this necessary.

IDVISORS

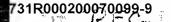
The surgeon general must consider the advice of appropriate consultants and advisory bodies before determining whether it is necessary in the interests of public health to license additional manufacturers.

The cancer chemotherapy program to which the new policy applies is jointly sponsored by the National Institutes of Health the American Cancer Society the Damon Runyon Fund the Atomic Energy Commission, the Veterians Administration and the Folio and Drug Administration

EXPANSION

Congress has appropriated #30 million for the cancer chemotherapy program of the National Cancer Institute in the year ending June 30, 1959, fumpared with 25 million voted for last fiscal year.

A significant expansion of industry's role is placined, with Government contracts for that phase of research expected to total \$10 million this flacal year. Last year the total was four million



Funds Sought on Behalf of Cancer Drug

Angrew C. Ivy last night launched a func-raising campaign on behalf of the controversal cancer drug Errepiezen at a dinner attended by movie actress Gloria Swanson and Sen. Faul Douglas (D-III.).

The University of Illinois physiologist also warned that if the National Cancer Institute does not not to give the drug a "fair test." supporters of Kreblozen will seek legislation to force a test.

Tyy told guests at the testi-

mones dinner in his honor that a manual dinner in his honor that a manual dinner form of organization.

Will he organized to raise at least \$350,000 to finance production of more Kneblozen.

At the present rate of usage, all the Kreblozen new available will be used up next summer." Ivy said, "and those patients now dependent on it will be left without it."

Fraid studies of about 1,000 persons created with the drug have convinced him that Krebiozen "is of value in the treatment of some concer settlents."

With further research and development, Ivy said, the drug "may turn out to be more affective and provide a key to finding the cure af all cancers."

provide a key to finding the cure of all cancers."

Who is to be responsible if we expense extent of Krebiozen's use? Ly asked. "Certainly not I

"What sort of person would I be if I did not fight to keep this experimental work going on."

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Oil, Says Dr. Paul Kirk

By JOHN F. ALLEN

Wrebiozen, the supposed anti-cancer chemical which has been the source of violent controversy for six years, is simply "a good grade of mineral oil and nothing else."

This startling testimony was offered here yesterday by Dr. Paul Kirk, noted Univeraiti of California professor of criminolistics, and the man generally credited with sending Kiknaper Burton Abbott to the gas chamber.

Doctor Kirk, whose chemi-Berkeley is rated as the best and most exhaustive in the world, testified under oath before the State Senate Interim Committee on Public lealth, which is gathering sets for a proposed law to Cancer Hearing Testimony trace of some antibiotics." arb cancer quacks.

OTHING BUT LAXATIVE.

After a detailed explanation facturing method exhaustive chemical and

hows that Krebiozen ix seithing more than pure Nu. Taxative. In other respire it is a good grade of mineral oil and absolutely Budhing else."

the two Wednesday session lestified that it would be imported by the Committee heard testimony possible to exercit the Dasic SLAPS AT HONSEY.

Since the Dr. Andrew Ivy. of Chickentesterror the mineral oil.

Both men took broad slaps at llarry M. Hoxsey, of Dallas, called the most notorious cancal mass caused his near ostra.

Declar kirk first noted this cer quack of them all, who

Kirebiozen was a biologically could do it easily

active chemical which had

However, he said, no matter 14 year of boy had come to

to find the City of Hope after under-

Medical Association and other organized medical groups of the Krebiozen he tested in six the conspiring to keep Krebiozen he tested in six the conspiring to conspiring to keep Krebiozen he tested in six the conspiring to conspiring to keep Krebiozen he tested in six the conspiring to conspiring to keep Krebiozen he tested in six the conspiring to conspiring to keep Krebiozen he tested in six the conspiring to conspiring to keep Krebiozen he tested in six the conspiring to conspiring to keep Krebiozen he tested in six the conspiring to conspiring to keep Krebiozen he tested in six the conspiring to conspiring to keep Krebiozen he tested in six the conspiring to conspiring to keep Krebiozen he tested in six the conspiring to conspiring



injected into horses. The final cancer treatments. runties of this material drug, he said is a powder

branded it as "ridiculous," appearance before the com-

He testified that he received the treatment not only cost

While other tests run by the American Medical Association and similar groups have invariably failed to show that Krebiozen has any real anticancer effect, Doctor Kirk's was the first reported chemical analysis of the substance. ANOTHER CURE.

Doctor Kirk also reported on an incomplete analysis of another substance which has been largely regarded as the basis of quack cancer treatment: Muchorhicin, advertised as a cure by a Phisburgh, Pa., group and used by some chirepractors in California.

So far, Doctor Kirk said, his analysis has showed the substance contains "lots of yeast, two kinds of bacteria, some fungi and perhaps a useless

Doctor Kirk's testimony itails of its content or manu-stirred an angry burz in the board of supervisors' chamber the wave tests to which he it is a substance derived from mittee is meeting from an posed samples of Krebiozen a cow disease called "lumpy audience made up mostly of This substance is then true believers in unorthodox

made from the blood of the from two other witnesses: Dr. injected horses which is then Howard Rierman, scientific didissolved in inineral oil and rector at City of Hope, in given to patients with ad southern California, and Dr. Andrew Small, of Dallas, a Furthermore Doctor by cancer research expert from

eism from accepted scientific bit of tyy issumony and backed down on a promised Doctor kirk arst noted this eer quack of them all, who

proved highly effective in conhow hard he tried to find the City of Hope after undertrofling advanced human cansomething in the mineral oil, going the Hoxsey treatment
be always came up with just for jukemia and had died there

Nuiol, an old fash one dasher five months, despite theroic efforts to save him.

It Works'

me patient moves a lever in the mail and a light blinks. He moves associate and he gets a prize. The process has done more for schizo-phassics in the big Veterans Administration. Hospital at Buttle Research, Mich., than any standard baseinal treatment used there.

less new device, an 8-footwas rigged up last in the hospital's chief paychampion Dr. Stewart G. Armitage. He was struck with the idea while that many a group of hopeless "backschizophrenics shuffling, unite and dream-like, through their each routine. All of the patients, Westel War II voterans (average (14), had spent at least nine saas in mental institutions. Elecчистноск treatment, insulin shock. swychutherapy, and the new tranaminers had been tried on each, but with no significant improvement.

Yet these men still used their motor tooctions—they walked about the wards, one their meals in silence, smoked eigateries Dr. Armitage reasoned: Why not too toor motor activities to rouse their interests, bring them back to reality? With the help of psychologists—Dr. Carl Dicovin of the University of Michigan State Dr. Gerald F. King of Michigan State Michigan apparatus and called it all 2004, short for multiple differential apparatus.

Returned A 30-year-old referso, made fur four years, stood believe me board last week while a therapost asked him to move one handle one of him ways—up or down, right or left. It has the patient moved the handle in the roth direction, a green light applicated the problem had been solved, and as a toward the patient was personated in oull one of three other levers a release candy, eigarettes, or an out-light picture projected in a screen. The lang-ment man selected eigarettes as a researd, and, to the pleased surprise of the therapist, said: "Good morning, Have you a match?"

"We designed MUDRA to look like a solution machine to get the patient's interest." Dr. Armitage explains. "It's a little timbe Goldbergish-but it works."

Three times a week for fifteen weeks, iwalvo of the VA hospital's most hopeless elicitation in the VA hospital's most hopeless elicitation have stepped before the visual toy to flip levers and empty slots. After succeeding with the first one-lever receivements, and finally to "team games" which one patient is asked to make a correct move with one knob while another makes a second move. "This re-ratices talking and cooperation," said Dr.



MCDRA: The same that helps schizoids

Armituge. "It brings the men back into the world of reality."

A panel of therapists has pronounced none of the twelve MUDRA-treated schizophrenics "nuticeably improved" since the gadget's installation. One man who had refused to leave the ward to take part in hospital activities suddenly became relaxed and quite sociable, and asked to go swomming. Another, who had been "noneachable" for six years, was discharged as cured.

Why does MUDRA work? In schizophiema the vactim suffers a profound sense of personal failure and, eventually, a total loss of self-respect. "Perhaps the men respond to the MUDRA problems because they have a chance to experience success on their own after long years of fadure," said Dr. Armitage "More important. I think the muchine shows that the schizophieme has better control of his faculties than many think." At any rate he can be reached, to some degree through motor activities,"

The next step? To get at the very mots of this most baffling of all mental diseases, Dr. Armitage and his VA associates are planning a long-range MUDRAschizophrenia study. "Some doctors think

the schizophrenic has a built in sensory defect—that he man not see, hear, feel, taste, or smell though as other people do," the psychologist concluded, "With MUDRA, we hope to prove—or disprove—this idea for good."

Cancer Vaccine?

Several hundred U.S. physicians who skeptically greet any mention of quick-relief serums for tro-ing cancer listened last week is D. Gordon Murray of Toronto described "some astomshing riflects in last-stage cancer victums injected with his own brand of horse sectors.

So far, Dr. Murray admitte to the annual meeting of the American Academy of Orthopedic Scrigeous, in Chicago, there have been no cures with the serum, derived from blood cultures of horses in peeted with human cancers. But at

least ten terminal breast-cancer patients, and others with stomach and colon concers are alive from two to three year after getting their first injections. All, trapatients previously had been treated without success, with the standard their apies—singery, radiation, and dripps from daily injections of Dr. Marray's serum the majority gut pain relief, some even were able to go back to work

Experimentals Dr. Murray's works in based on the theory, now accepted by many cancer experts, that the human body possesses a natural resistance to cancer. In his experiments, he hopes in determine whether his horse scrim is capable of strengthening the cancer vacuum's built-in immunity to the disease it so, the serum might take its place as an immunizing cancer vaccine the goal of every cancer researcher.

Though the serum's immunoization power has not been proved, hundreds of cancer victims who read the Chicogo reports were already clanoring for on mediate treatment. To all of them Di Miurray replied family: His tests are experimental, no more cancer patients can be accepted for treatment at his Toronto clinic; the serum is not yet available for use in other medical centers.

Periscoping Medicine

The theory that excessive salt is a primary cause of high blood pressure is bolistered by a new survey showing that Eskimos and some Northwestern Indian tribes, who set no salt, have almost no hypertension... Victims of hemophilia have been helped by oral tablets of protease, enzymes that split like body proteins and help to strengthen the poor blood-clotting mechanism. Cholesterol, suspected by some researchers to be a cause of heart disease, now in also believed to hasten cancer growth. Studies abow that an entire colla musicipity, the body produces increasing amounts of the fat-like substitute.

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THE RESIDENCE OF THE PARTY OF T

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munition the needle to are air pump to the the fund of the elely reair leakage has ceased.

1 to 16ministreauliate.

Spontaneous Cancer Regression

Rarely, a malignant tumor disappears or recedes with inadequate treatment or none at all. Of more than 1,000 instances of such sportaneous regression reported in the instances of such spontaneous regression reported in the literature, only 90 are adequately documented and histo-logically confirmed.

Over half of proved spontaneous regressions have been of neuroblastoma, malignant melanoma, chorioepitheisoma, and career of the bladder Cancers of the breast, uterus and gastroinlestimil tract disappear less often despite anuch more frequent occurrence.

Of metastatic kisions, documented only by roentgen evidence, choriocpithelicaria, malignant melanoma, osteopenic sarcoma, and hypernephroma regress most frequently. Prosonged arrest of provide occurs most commonly in care-nome of the breast thyroid, and prostate. A prolonged latent period between primary tumor and metastasis or re-currence has been noted particularly with breast cure

and hypernephroma.

Several theories have been advanced to explain montaneous regression. Hormonal alterations produced by the cancer itself may be responsible. Other tumors may be abnormally sensitive to itselfation or chemotherapy and subside after doses which are usually inadequate. Alterric or immune reactions have been suggested as destructive of wor cells I ever or acute infection; compromised blood supply to the camcerous area; supposedly incomplete and gical rena. which was in reality complete; inadvertent removal of the arcinogenic agent, for example, by diversion of urine; and as correct histologic diagnosis are other possible factors

Titen C. Everson, M.D. (U

104 MODERN MEDICINE DECEMBER 1958

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and the contains the second of the same that contain that is a progressively in the face of weak in riurity in the faciquents.

THEODORZ H. HAUSCHKA (Roswell Park Memories Institute, Buffale, N. 17. We have compared the rates of growth of a hypercoploid which he actes and its tetraploid subline. These two lines are genetically comparable, since the latter line was derived from the former by immunoselection, and both of them have been propagated in the same stock of mice. To our surprise, we have found that the rate of growth for the two ce populations is exactly the same until a limiting mass is reached. This occurs woner for the aetrapicial sub-line because of the larger individual volume, of its cells. The lethal mass of turnor protopissm per mouse that is synthesized by the tetraploid and the dipioid is nearly the same, but the total number of cells per mouse is loughly twice as large for the hyperdiplosi Topulation, which is in keeping with the majier individual cell volumes This is interesting from the point of view of mass regulation by a host strain. Our phery coun has been confirmed by Hein and his collaborators at the Karolinska Institute Stockholm, Sweden. These investigators, in their extensive growth that, for various diploid and provided tumors, have found no correlation whatever between the rate of

POBERT R. CITRON (Stockton, Califer ally on the 13 Are directed to Jerome 3 POBERT R. CITRON (Stockton, Call a fully obtained and directed to Jerome Systetion Van Potter, and Theodore Haitachke. Supposed like to quote systetion's remarks anent the invitad of pixed antigent in cancer cells and Potter's observation that the function of pixed antigent in cancer cells and reacter study. Hauschka's sery interesting fall pixed pixed graphs dealing with interegularities of surface between normal fall and cancer cells may also lend support to the apparent significance of lipit and importation in this area of suclical research. All of the foregoing makes the find to call attention to same work in this field that has then tone for a number of years concerning cancer lipid as antigen, that is as an antigent drawton serves from carcer assess by means of fall solvent as for the mole division we have extraction for the support of the pixel of the solvent as for the mole division serves from carcer assess by means of fall solvent as for the mole division where extraction for the support of the pixel of the solvent as for the mole division serves. tixue by means of fat solvent as for example, by ethyl ether extraction (eththe Advancement of Science in New York N. Y. I. wish to emphasize this appears as means of correlating the various familications that point

some common of interest in current insues that has specific adjectic activity, in contract to components of normal tissue that have not "It does not supear that process where holds the solution to this problem, in I mention the concept of lipids the experimentation with them as means of throwing light on the controversial situation that has existed heretolore in this difficult field of cancer immunology.

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